



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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DONALD L. WOLFE, Director

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November 14, 2006

IN REPLY PLEASE

REFER TO FILE: **PJ-2**

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, CA 90012

Dear Supervisors:

**LAC+USC MEDICAL CENTER REPLACEMENT PROJECT
APPROVAL OF CONSTRUCTION CHANGE ORDER
RADIO SYSTEMS EQUIPMENT REVISIONS
CONTRACT PW-12641; MCCARTHY/CLARK/HUNT, A JOINT VENTURE
SPECS. 6550; C.P. 70787
SUPERVISORIAL DISTRICT 1
4 VOTES**

**JOINT RECOMMENDATION WITH THE CHIEF ADMINISTRATIVE OFFICER THAT
YOUR BOARD:**

Approve and authorize the Director of Public Works to execute a change order to provide for the revised equipment and specifications for the radio systems at the LAC+USC Medical Center Replacement Project for a \$535,000 not-to-exceed amount.

REASON AND SCOPE – RECOMMENDATION:

Unforeseen condition	<input type="checkbox"/>	Regulatory agency requirement	<input checked="" type="checkbox"/>
Drawing coordination	<input type="checkbox"/>	Previously approved scope change	<input type="checkbox"/>
Errors and omissions	<input checked="" type="checkbox"/>		

The radio system for the project comprises five subsystems. They are the Hospital Emergency Administrative Radio, Countywide Integrated Radio System, Paramedic Radio System, Los Angeles County Sheriff Radio System, and common Wireless Access System.

The Hospital Emergency Administrative Radio provides for communication with other hospitals and the Medical Alert System. The Countywide Integrated Radio System provides for communication between the Office of Public Safety personnel and the off-site County departments (excluding Fire and Sheriff). The Paramedic Radio System provides communication between the hospital and ambulances. The Los Angeles County Sheriff Radio System is a two-component system and provides for internal (via portable radios) and external (off-site) communication. The Wireless Access System provides for the propagation of both Countywide Integrated Radio System and Los Angeles County Sheriff Radio System.

The original Contract documents were based on programming information gathered during user group meetings in the design phases of the Medical Center.

In March 2002, during user group review meetings, concerns were raised regarding the reliability and redundancy of the designed Wireless Access System radio system infrastructure. These issues were resolved in June 2002 after multiple meetings. Modifications to provide redundancy to the radio system infrastructure drawings were incorporated during the bid period through addenda. The specifications for the radio systems required extensive modifications. In order not to delay the bid of the hospital, the decision was made to address these modifications through bulletins issued at a later date. It was expected that any changes to the specifications would add comparable costs to the project budget whether they were added at that time or at a later date.

After multiple review cycles and comment sessions in late September 2004, we issued the radio system bulletins for the four buildings incorporating all specification comments received from the various departments for the different radio systems. The contractor submitted a quote in the amount of \$10,020,000 for the revised scope and system changes. Immediate on-site value-engineering sessions between Public Works, the contractor, the architect, and the Internal Services Department pared down the bulletins to mutually agree on the necessary system modifications. The resulting modifications were reviewed and revised several times before being issued to the contractor. Concurrent with the issuance of the second set of bulletins, the contractor issued five Requests for Information (RFI), one for each of the radio systems. These RFIs questioned frequencies, bandwidth, and interfaces among each subsystem. After Internal Services Department's response to these RFIs was received, the contractor was given direction to review and price the RFI responses along with the bulletins to avoid delay.

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On July 19, 2006, the contractor submitted a potential change order for approximately \$1,200,000, without time or delay impacts for the revised Wireless Access System radio system's equipment and specifications. The majority of these costs are attributed to the equipment required to support 104 channels rather than the previously specified 2 channels. Public Works has independently estimated the cost of this change order to be \$535,000.

Public Works issued two Proceed Orders for a \$145,000 total amount for the work related to the proposed change, the value of which is included in the \$535,000 estimate. Cost negotiations of this change with the Contractor have not been finalized. However, if the final value of the change order exceeds the cost estimate, we will return to your Board for approval. Approving the recommended action will allow us to direct the contractor to install the revised radio systems to support the functionality as required by the system's users based on our best estimate of the value of this work.

We reviewed the above recommendation as well as the potential cost impact with the Project Advisory Committee. This change order is considered to be within the scope of the project.

There is sufficient appropriation available in the Fiscal Year 2006-07 Capital Projects Budget (C.P. 70787) to fund this action.

CONCLUSION

Please return an adopted copy of this letter to the Chief Administrative Office (Capital Projects Division) and Public Works.

Respectfully submitted,

DONALD L. WOLFE
Director of Public Works

DAVID E. JANSSEN
Chief Administrative Officer

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cc: County Counsel
Department of Health Services (Fred Leaf)
Project Advisory Committee (A. Redmond Doms, Jerry Epstein, Nick Patsaouras)